

Resource Assessment of Animal Dung for Power Generation: A Case Study

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Abstract : The paper has an aggregate analysis of animal dung for converting it into renewable biomass fuel source that could be used to help the Indian state Punjab to meet rising power demand. In Punjab district Bathinda produces over 4567 tonnes of animal dung daily on a renewable basis. The biogas energy potential has been calculated using values for the daily per head animal dung production and total no. of large animals in Bathinda of Punjab. The 379540 no. of animals in district could produce nearly 116918 m³ /day of biogas as renewable energy. By converting this biogas into electric energy could produce 89.8 Gwh energy annually.

Keywords : livestock, animal dung, biogas, renewable energy

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